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IN THE CLAIMS

The following is a complete listing of the pending claims along with status.

1. (Currently Amended) A mold tool assembly comprising:

a movable member defining a portion of a mold cavity surface; and

a biasing assembly comprising a plurality of compressible members, said biasing assembly controlling movement of said movable member for receiving ~~movable to receive additional~~ material during filling of said mold cavity and ~~displace~~ displacing said ~~additional~~ material to compensate for material shrinkage during solidification.

2. (Original) The assembly of claim 1, wherein said movable member is movable within a passage adjacent said cavity surface.

3. (Original) The assembly of claim 1, wherein said movable member comprises a face portion defining said portion of said cavity surface.

4. (Cancelled)

5. (Original) The assembly of claim 4, wherein said carrier assembly provides a force on said movable member less than molding pressures to receive a desired amount of material.

6. (Original) The assembly of claim 5, wherein said carrier assembly provides a force on said movable member to displace a predetermined amount of material in response to local material volume changes within the mold cavity.

7-11. (Cancelled)

12. (Original) The assembly of claim 1, wherein said movable member is cylindrical.

13. (Original) The assembly of claim 1, wherein said movable member is rectangular.

14. (Original) The assembly of claim 1, wherein said movable member comprises a shape corresponding to local area corresponding to a portion of said cavity desired to compensate for material shrinkage during solidification.

15. (Cancelled)

16. (Original) The assembly of claim 1, wherein said movable member provides for the ejection of a molded article.

17. (Original) The assembly of claim 1, wherein said movable member forms a feature of a molded article.

18. (Currently Amended) The assembly of claim 1, comprising a plurality of movable ~~member~~ members disposed within said mold tool.

19. (Currently Amended) A method of molding a molded article comprising:

a) introducing molten material into a mold cavity;

b) receiving molten material into a passage adjacent said mold cavity by displacing a movable member comprising a face defining a portion of the mold cavity; and

c) displacing molten material from the adjacent passage toward said mold cavity with said movable member responsive to a biasing force exerted by a plurality of bevel springs to compensate for changes in volume caused by solidification of the molten material.

20. (Original) The method of claim 19, wherein said step c) comprises compensating for local volume changes by pushing molten material from said adjacent passage into said mold cavity.

21. (Original) The method of claim 19, wherein said step c.) comprises maintaining a desired material volume locally by pushing molten material into the mold cavity.

22. (Original) The method of claim 21, wherein the molten material is displaced from the passage proportionate to shrinkage of the molten material during solidification.

23. (Cancelled)

24. (Original) The method of claim 19, comprising the step of applying a force with said movable member to limit the amount of molten material received within the adjacent passage.

25. (Original) The method of claim 24, comprising the step of applying a force with said movable member to push molten material from said adjacent passage proportionate to a reduction in local molten material volume within the mold cavity.

26. (New) The assembly as recited in claim 1, wherein said plurality of compressible members comprise a plurality of bevel springs.

27. (New) The assembly as recited in claim 28, wherein said plurality of bevel springs comprises an overall spring rate, and said bevel springs operate within a range were said overall spring rate is related to spring height according to a substantially constant relationship.

28. (New) The assembly as recited in claim 26, wherein a distance between said first and second positions is determined relative to a shrinkage rate of said material.

29. (New) The assembly as recited in claim 27, including an adjustment device for adjusting said overall spring rate.

30. (New) A method molding a molded article comprising:

a) introducing molten material into a mold cavity;

b) receiving a predetermined amount of molten material into a passage adjacent said mold cavity;

c) displacing said predetermined amount of material from said passage and into said mold cavity during solidification of said molten material; and

d) determining an amount of said molten material received within said passage according to a relationship between material shrinkage and mold injection pressures.

31. (New) The method as recited in claim 30, wherein said step d) comprises the step of determining a height loss caused by material shrinkage according to the relationship:

$$h_{new} = \frac{V_{shrink}}{\pi * (D_{boss}/2)^2}$$

Where: h_{new} = height loss

V_{shrink} = Volume of shrink

D boss = Diameter of movable member.

32. (New) The method as recited in claim 30, wherein said step d) comprises the step of providing for travel of a movable member within the passage substantially equal to twice the determined amount of height loss caused by material shrinkage.

33. (New) The method as recited in claim 32, wherein said step d) comprises the step of determining a biasing force for biasing movement of said movable member against injection pressures such that movement of said movable member within said passage is substantially equal to twice the amount of height loss caused by material shrinkage.

34. (New) The method as recited in claim 33, wherein said biasing force is determined as a percentage of molding injection pressures.